



Boston

ROSALIE RUFFINO - SPRAGUE ENERGY (V-04-0193)

ANALYTICAL REPORT NO: 440865/ P111400724

SHORE TANK # 3 (AFTER DISCHARGE T/B B 215)
SPRAGUE ENERGY, BUCKSPORT, ME
6 FUEL OIL ON FEBRUARY 10, 2004

<u>TESTS</u>	<u>METHODS</u>	<u>RESULTS</u>
GRAVITY, API @ 60 DEG F.	ASTM D 4052	14.7
FLASH POINT, F	ASTM D 93	>200
SEDIMENT & WATER, VOL. %	ASTM D 1796	0.10
SEDIMENT BY EXTRACTION, WT. %	ASTM D 473	0.07
VISCOSITY, @ 122 F, SFS/CST	ASTM D 445	84.2/177.4
POUR POINT, C	ASTM D 97	+6
SULFUR, WT. %	ASTM D 4294	0.498
ASH, WT. %	ASTM D 482	0.038
GROSS BTU, LB. / GAL.	CALCULATED	18,601/149,924
NITROGEN, WT. %	ASTM D 5762	0.29
ASPHALTENES, WT. %	IP 143	2.3
CONRADSON CARBON RES. WT. %	ASTM D 189	7.4
WATER BY DISTILLATION, VOL. %	ASTM D 95	0.4
SODIUM, PPM WT.	ASTM D 5863	21
VANADIUM, PPM WT.	ASTM D 5863	8

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SGS OIL, GAS & CHEMICALS
BOSTON - FEBRUARY 11, 2004

JEFFREY L. SEELEY

SGS North America Inc.

Oil, Gas & Chemical Services Division, 324 Marginal Street, Chelsea, MA 02150
t (617) 889-0773 f (617) 889-3029 www.sgs.com

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Approved, 7/16/02 S.Mitchell

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